

FIG. 1

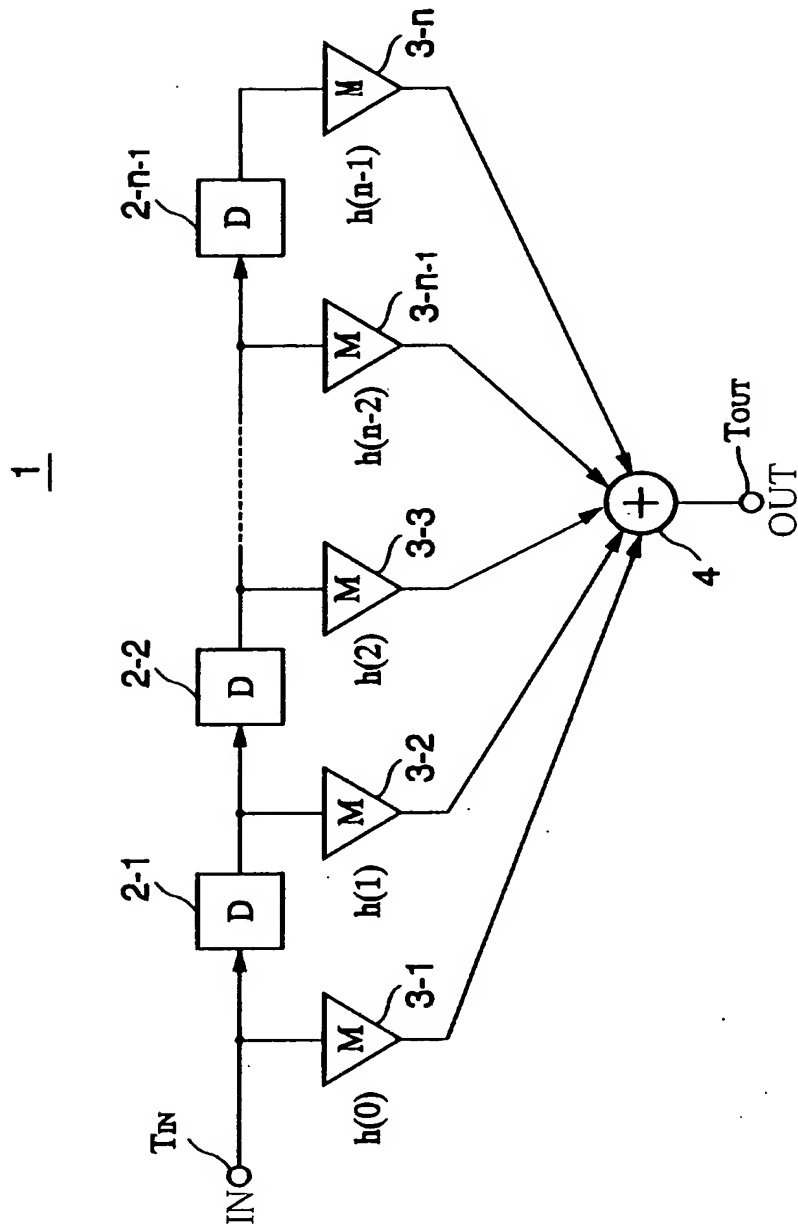


FIG. 2A

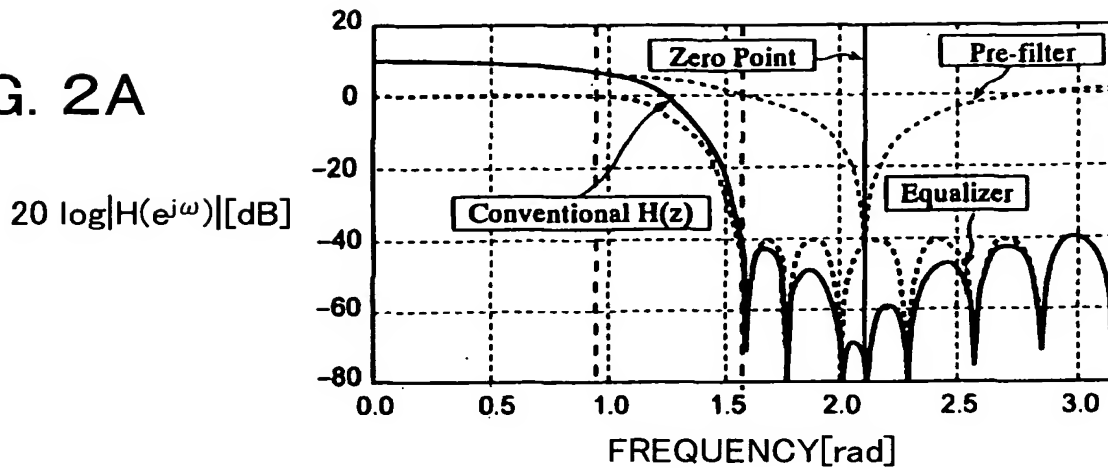


FIG. 2B

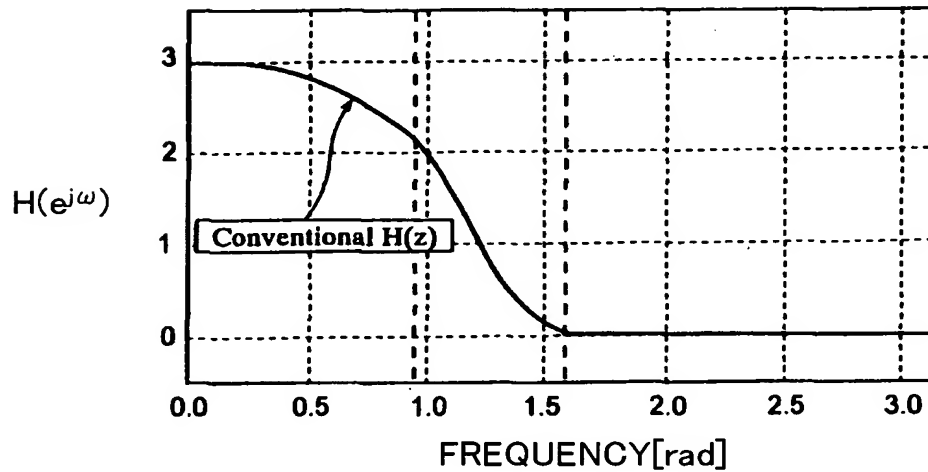


FIG. 2C

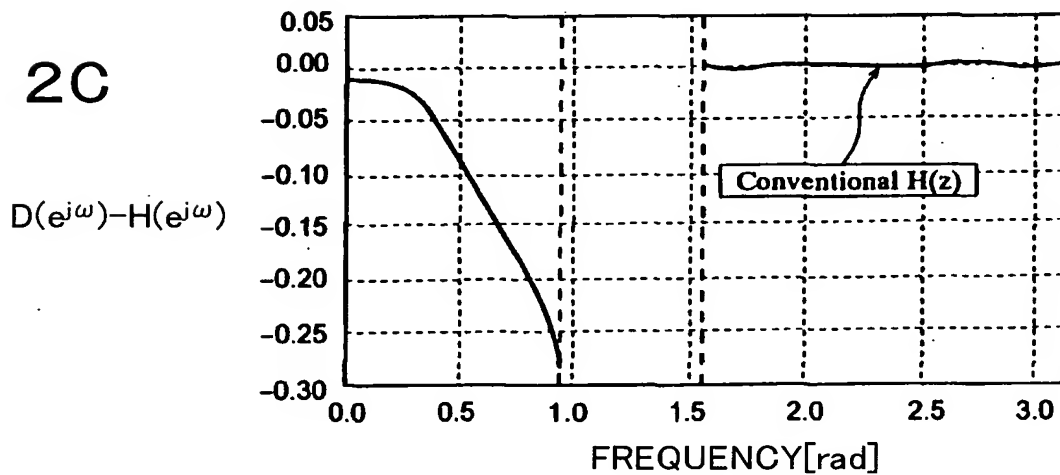


FIG. 3A

$20 \log|H(e^{j\omega})|[\text{dB}]$

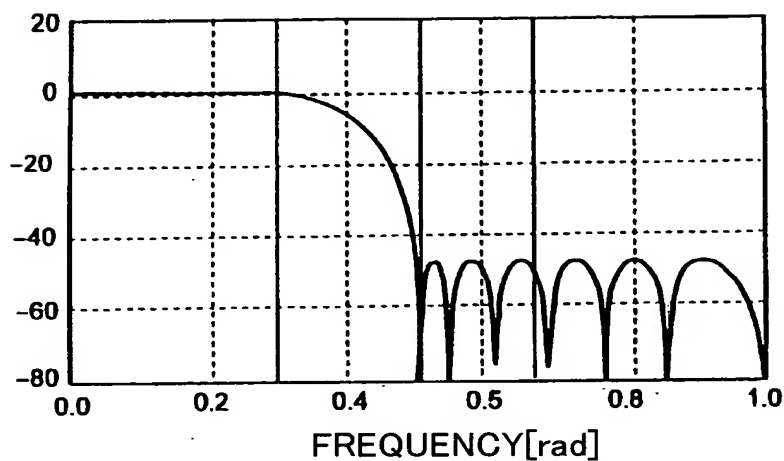


FIG. 3B

$H(e^{j\omega})$

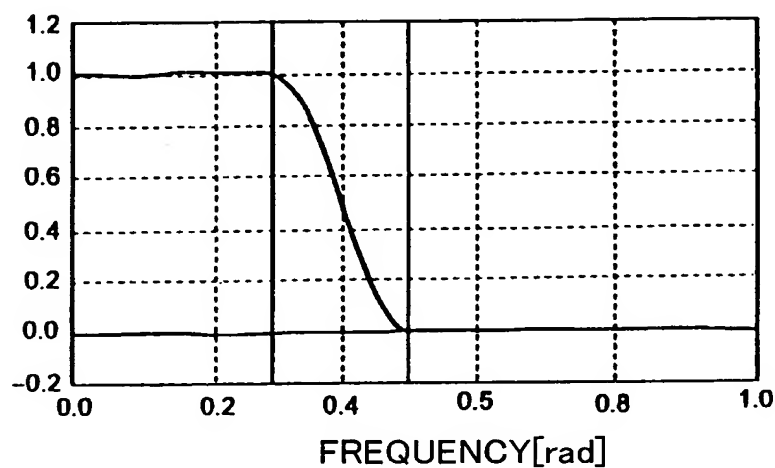


FIG. 3C

$H(e^{j\omega})$

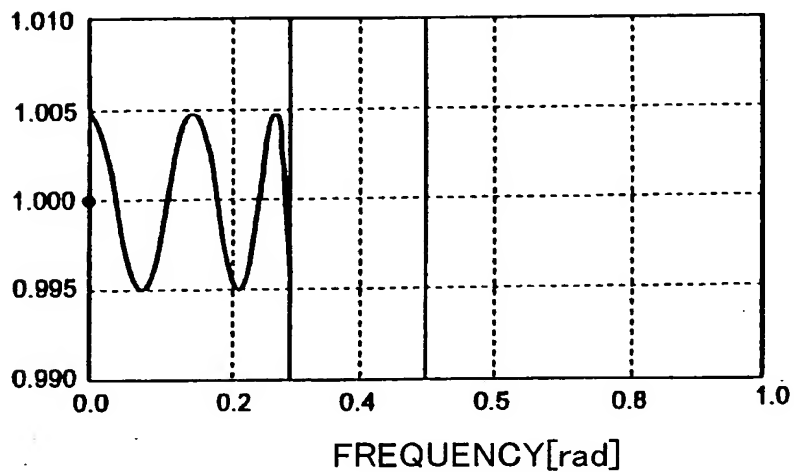


FIG. 4

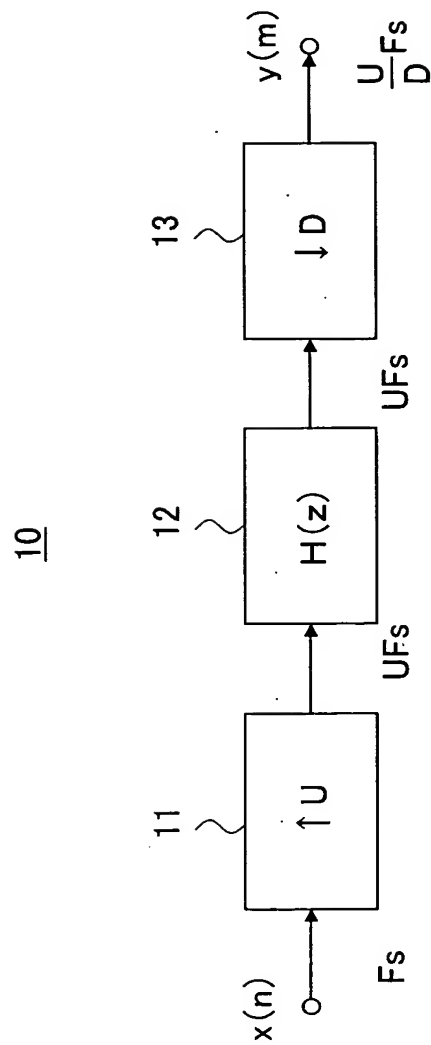


FIG. 5

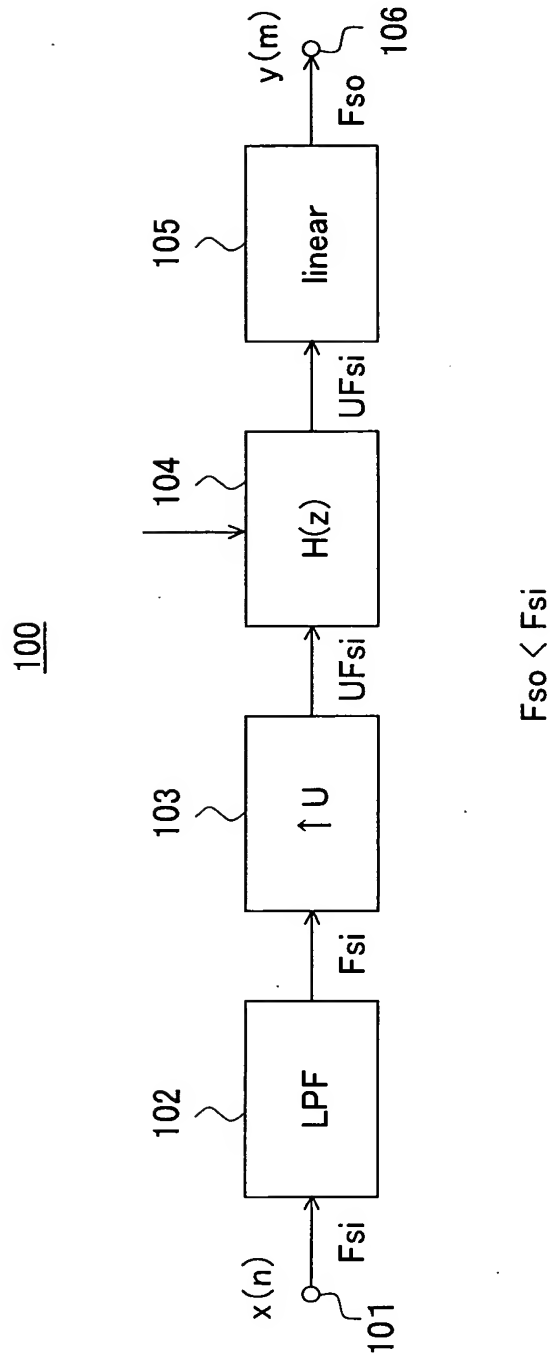


FIG. 6

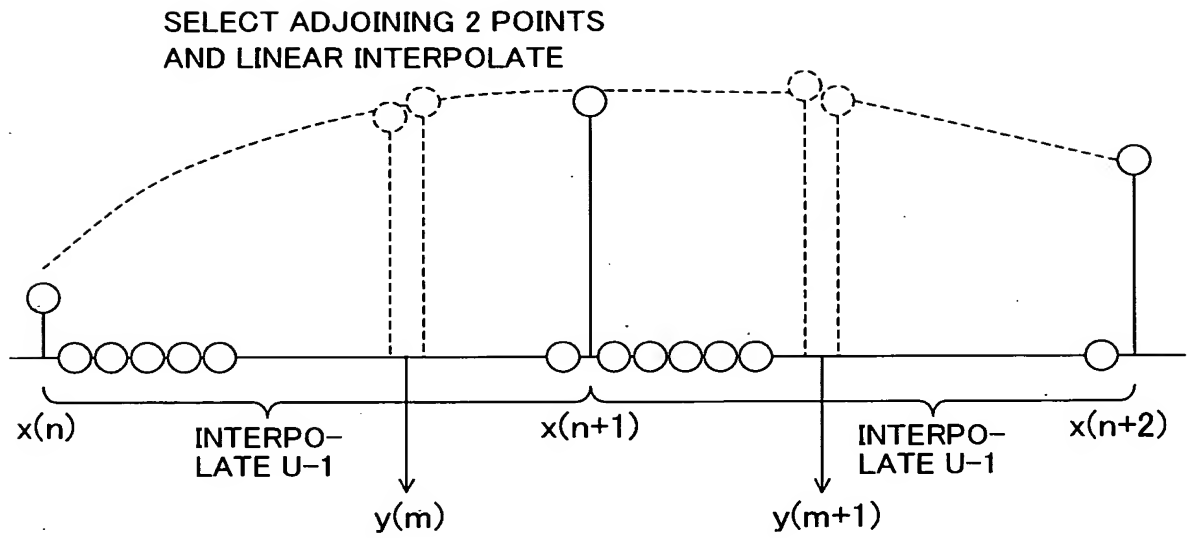
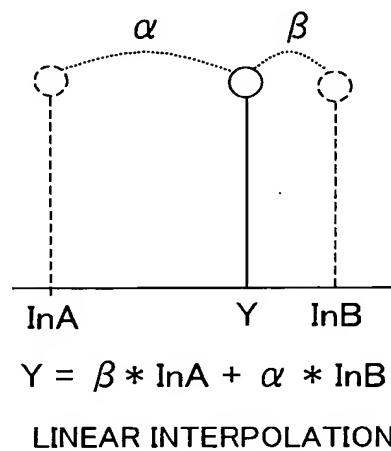
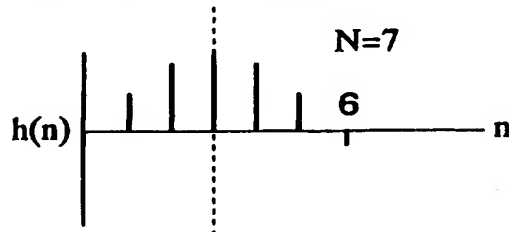


FIG. 7

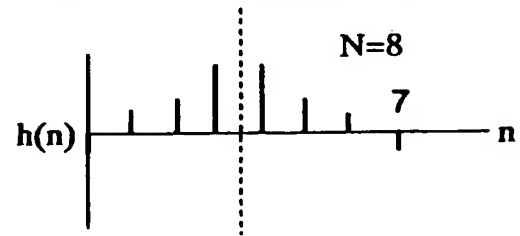


**FIG. 8A**

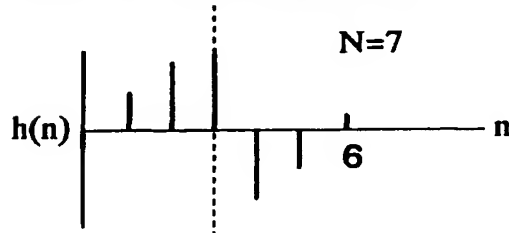
CASE 1: ODD NUMBER TAPS,  
 EVEN SYMMETRIC,  
 CENTER OF SYMMETRY

**FIG. 8B**

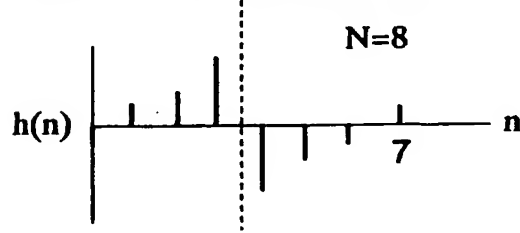
CASE 2: EVEN NUMBER TAPS,  
 EVEN SYMMETRIC,  
 CENTER OF SYMMETRY

**FIG. 8C**

CASE 3: ODD NUMBER TAPS,  
 DD SYMMETRIC,  
 CENTER OF SYMMETRY

**FIG. 8D**

CASE 4: ODD NUMBER TAPS,  
 ODD SYMMETRIC,  
 CENTER OF SYMMETRY

**FIG. 9**

CASE	$Q(e^{j\omega})$	R
1	1	$(L-1)/2+1-2 \times N_p$
2	$\cos(\omega/2)$	$L/2-1+1-2 \times N_p$
3	$\sin(\omega)$	$(L-3)/2+1-2 \times N_p$
4	$\sin(\omega/2)$	$L/2-1+1-2 \times N_p$

FIG. 10

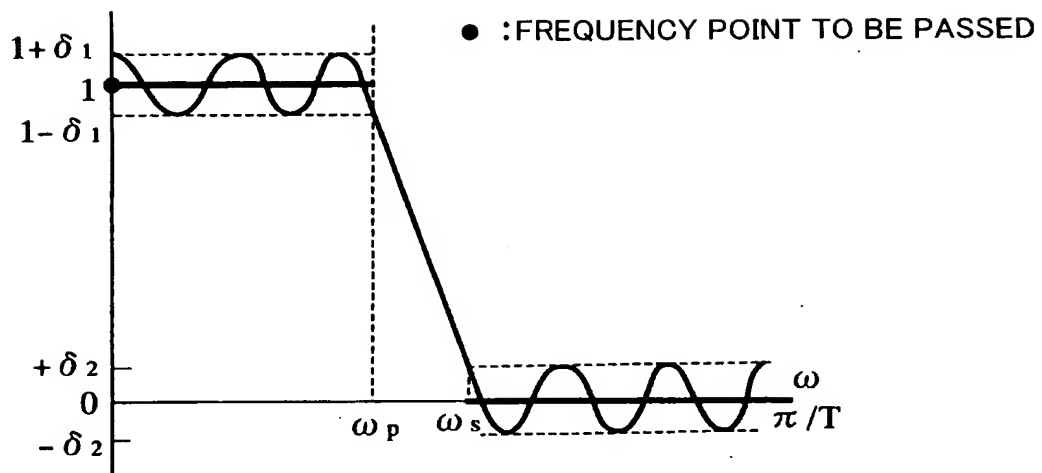




FIG. 11

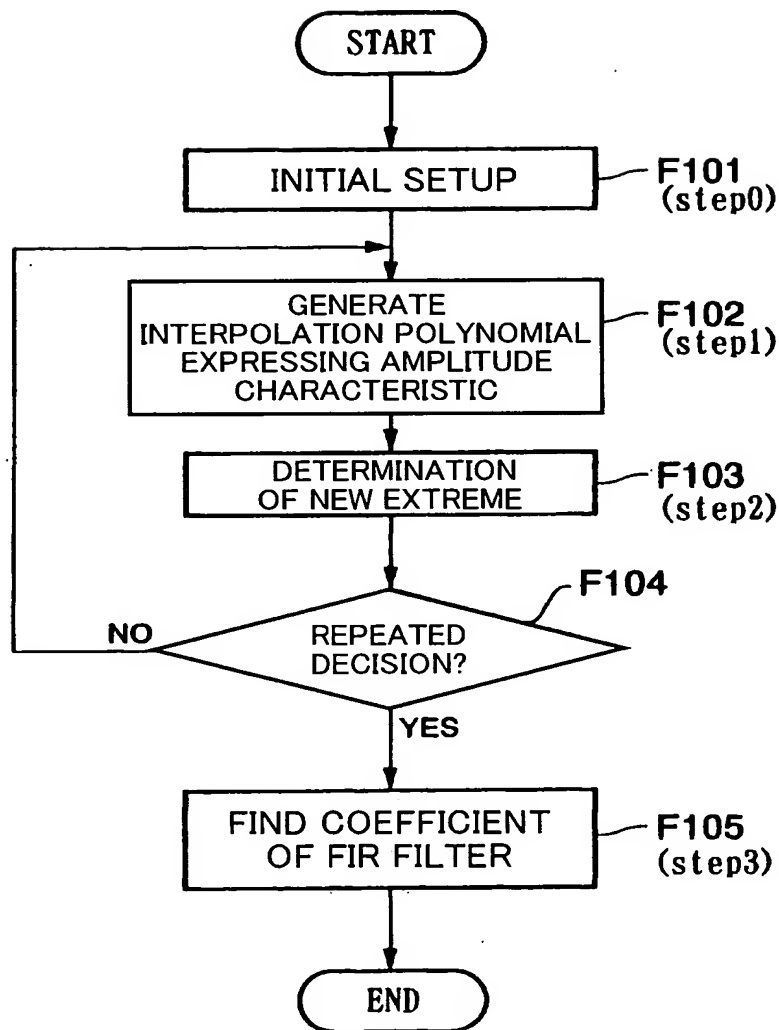


FIG. 12A

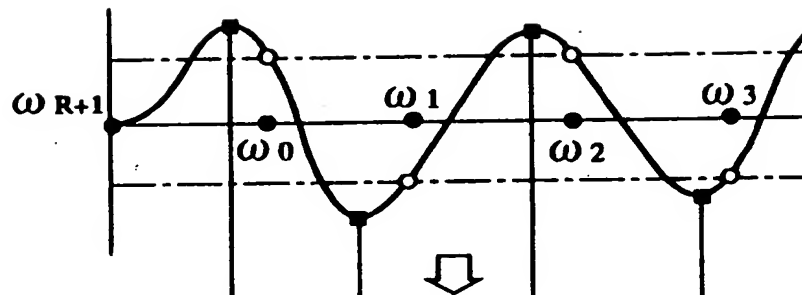


FIG. 12B

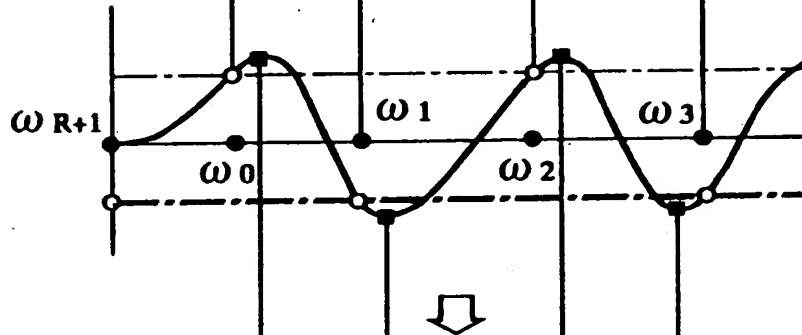


FIG. 12C

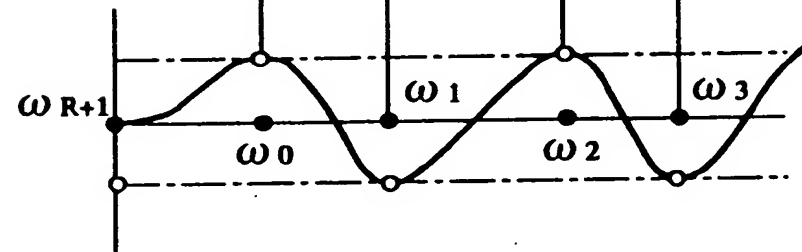


FIG. 13A

$20 \log|H(e^{j\omega})|[\text{dB}]$

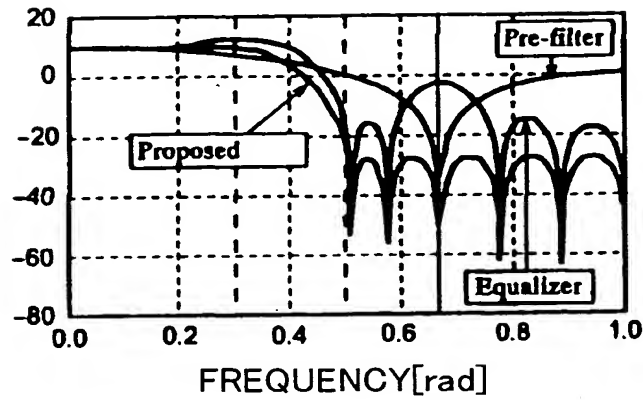


FIG. 13B

$H(e^{j\omega})$

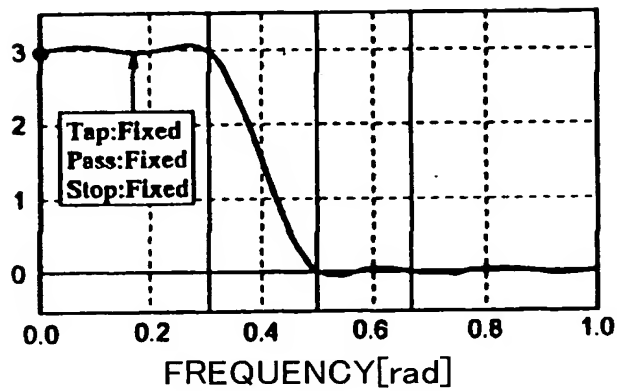


FIG. 13C

$H(e^{j\omega})$

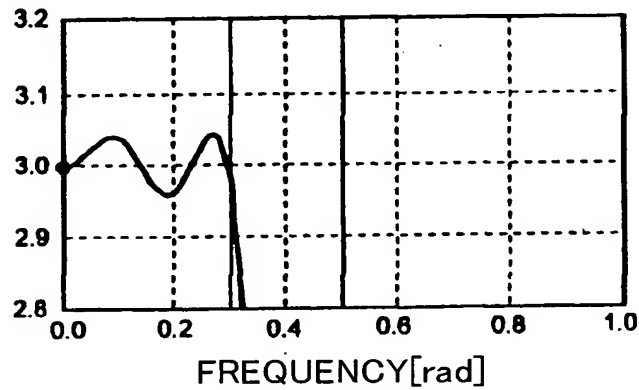


FIG. 13D

$H(e^{j\omega})$

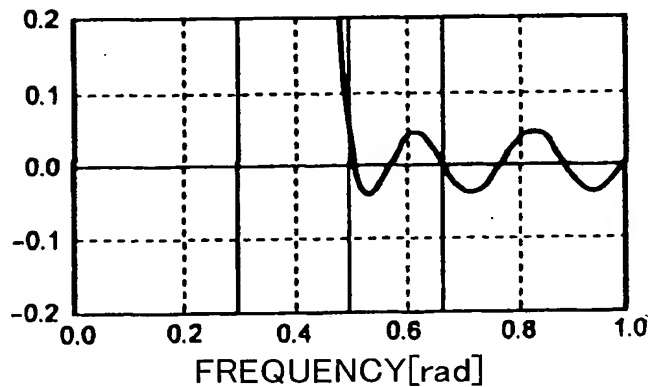


FIG. 14

100A

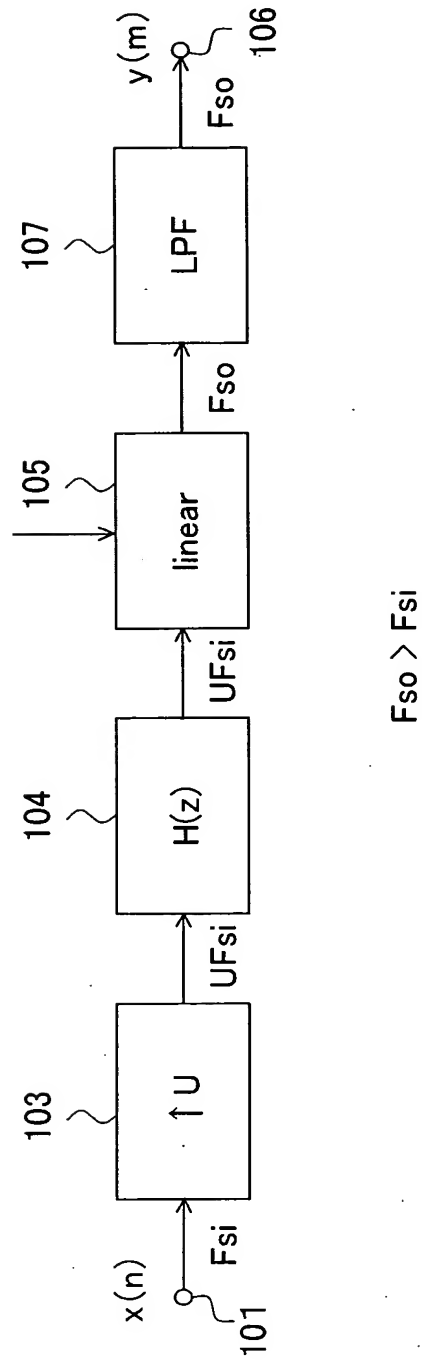


FIG. 15

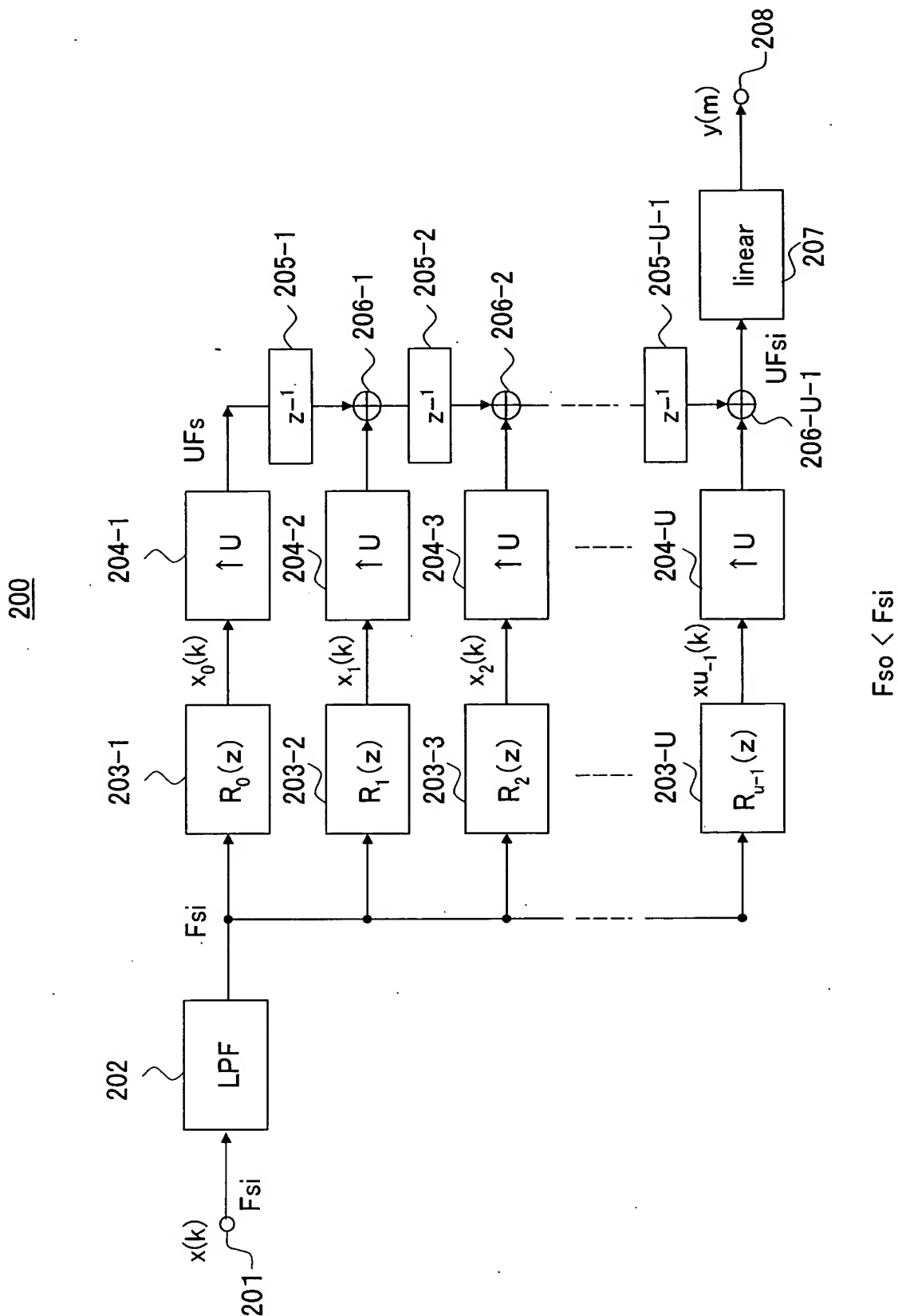


FIG. 16

200A

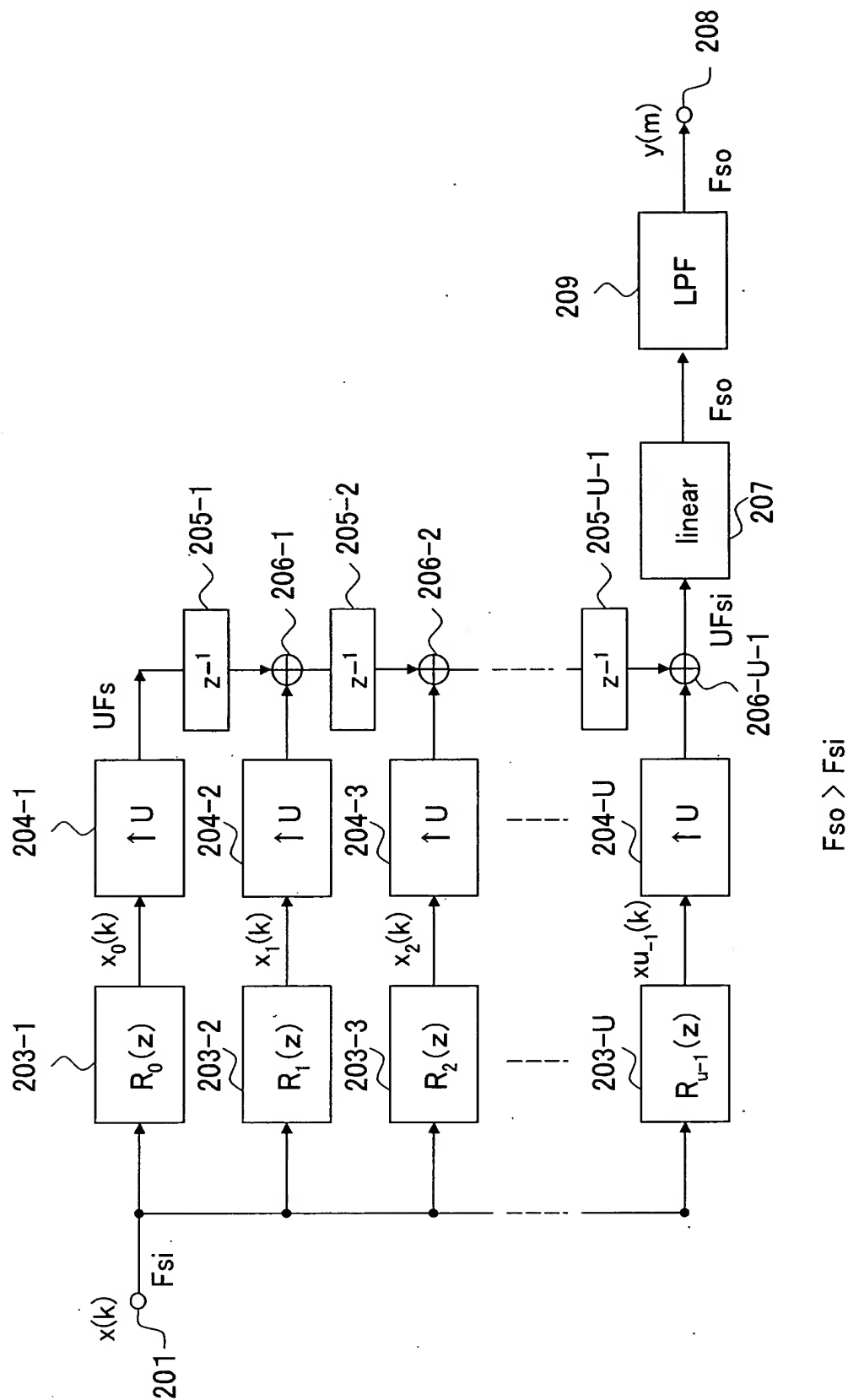


FIG. 17

200B

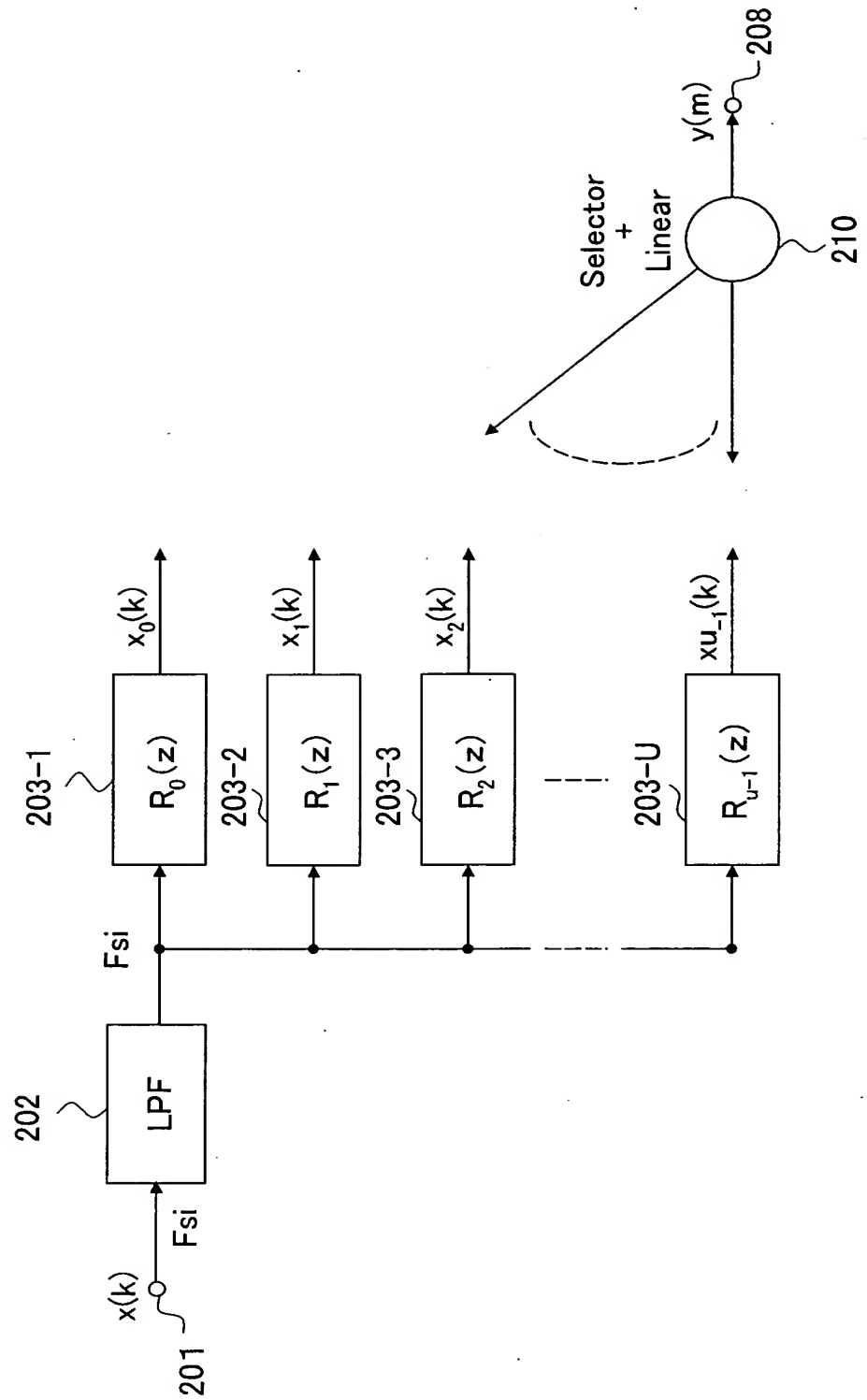


FIG. 18

200C

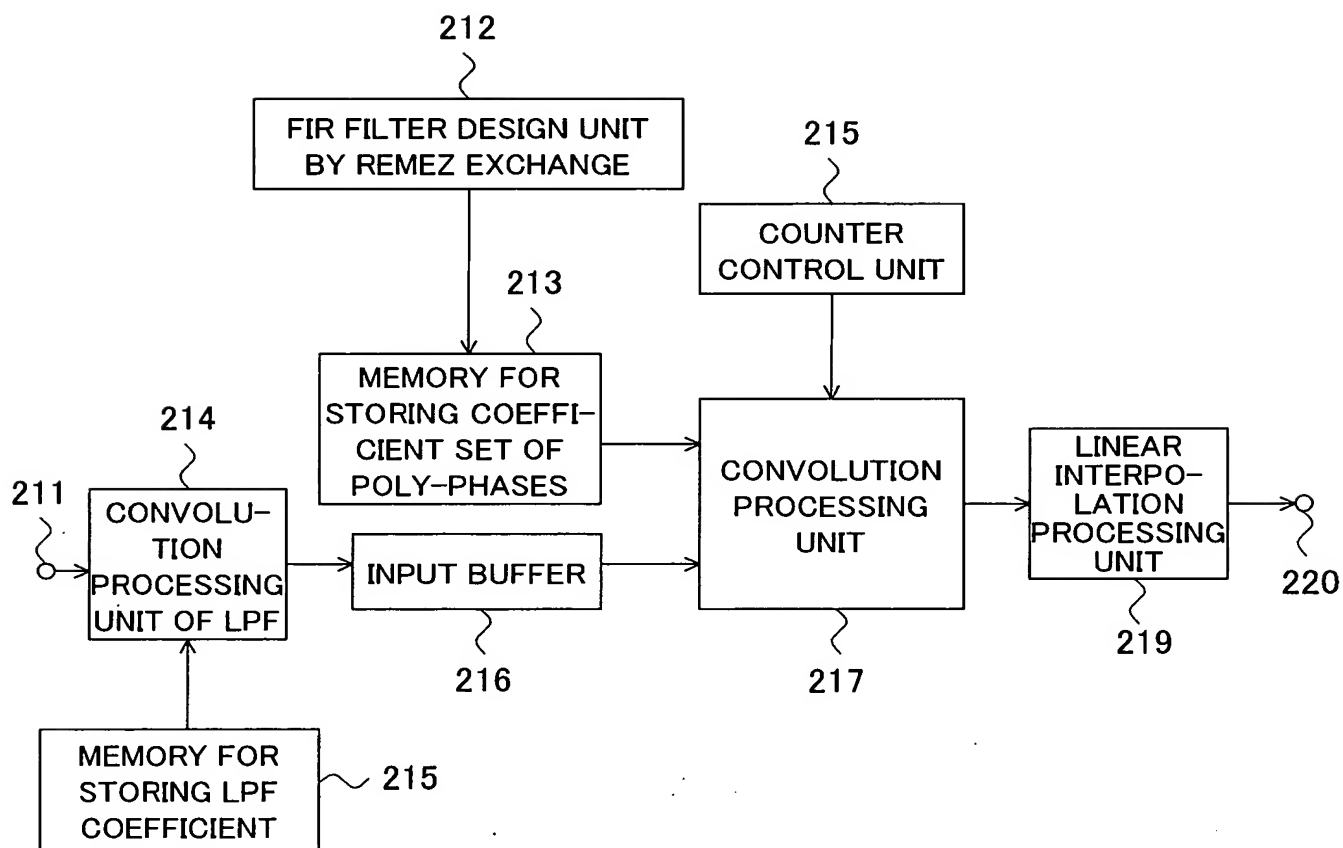




FIG. 19

VARIABLE	TYPE	EXPLANATION
MasterCount	int	DETERMINE OPERATION OF LINEAR INTERPOLATION
Count1000	int	COUNTER OF DECIMAL POINT OR LESS TO BE ADDED TO MASTER COUNTER
CountAdd	int	ADDED VALUE OF INTEGER PORTION TO BE ADDED TO MASTER COUNTER
CountAmari	int	ADDED VALUE OF REMAINDERS OF DECIMAL POINT OR LESS TO BE ADDED TO COUNT1000

FIG. 20A

BIT	EXPLANATION
[15:0]	COEFFICIENT $\alpha$ VALUE OF LINEAR INTERPOLATION
[22:16]	NUMBERS OF POLY-PHASE COEFFICIENT SET
[25:23]	SAMPLE NUMBERS TO BE READ AND FETCHED

FIG. 20B

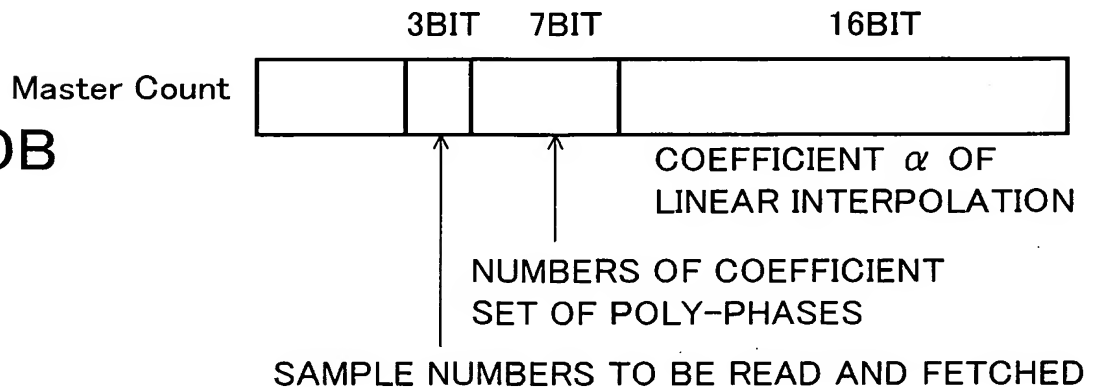


FIG. 21

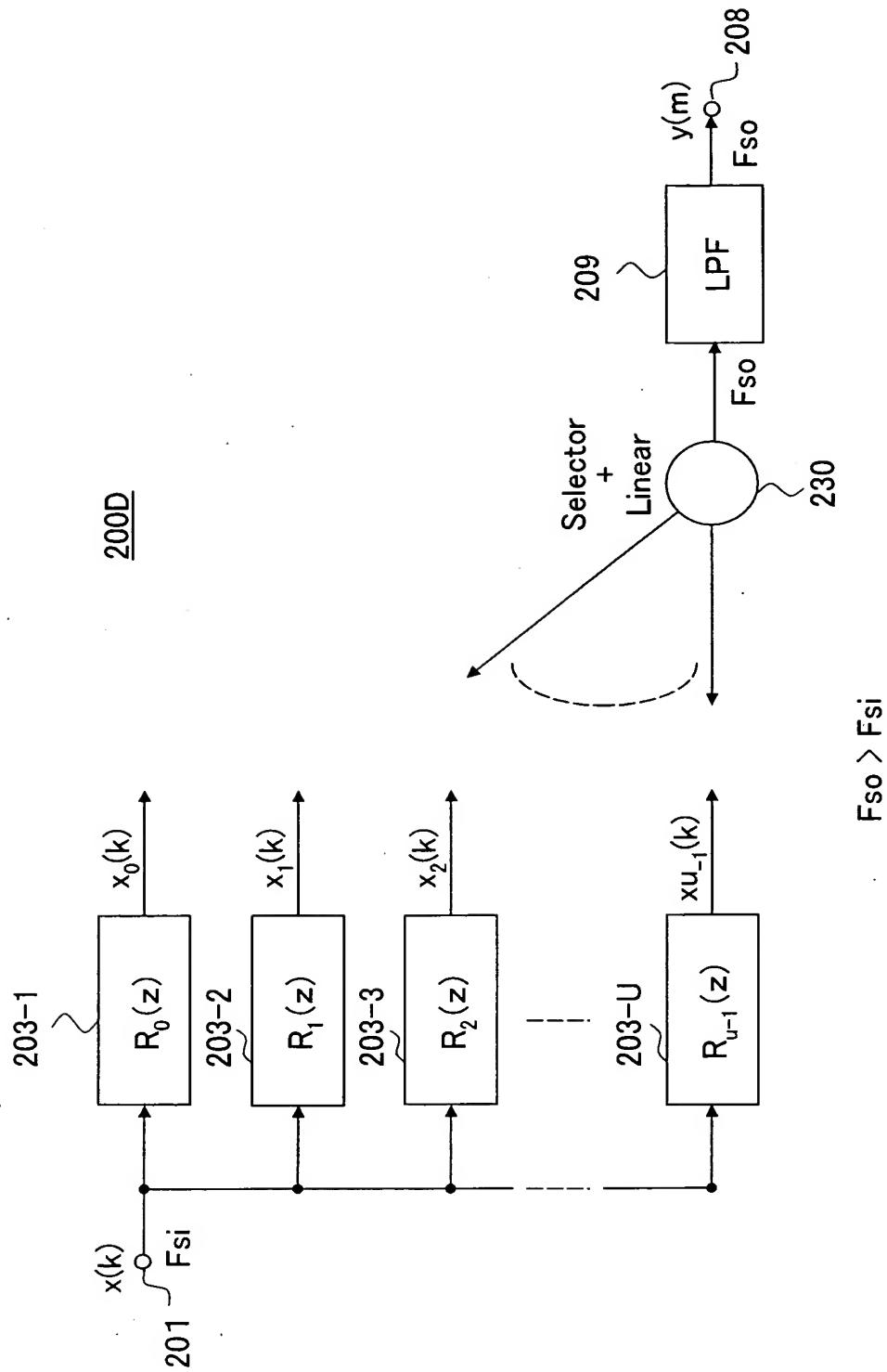


FIG. 22

200E

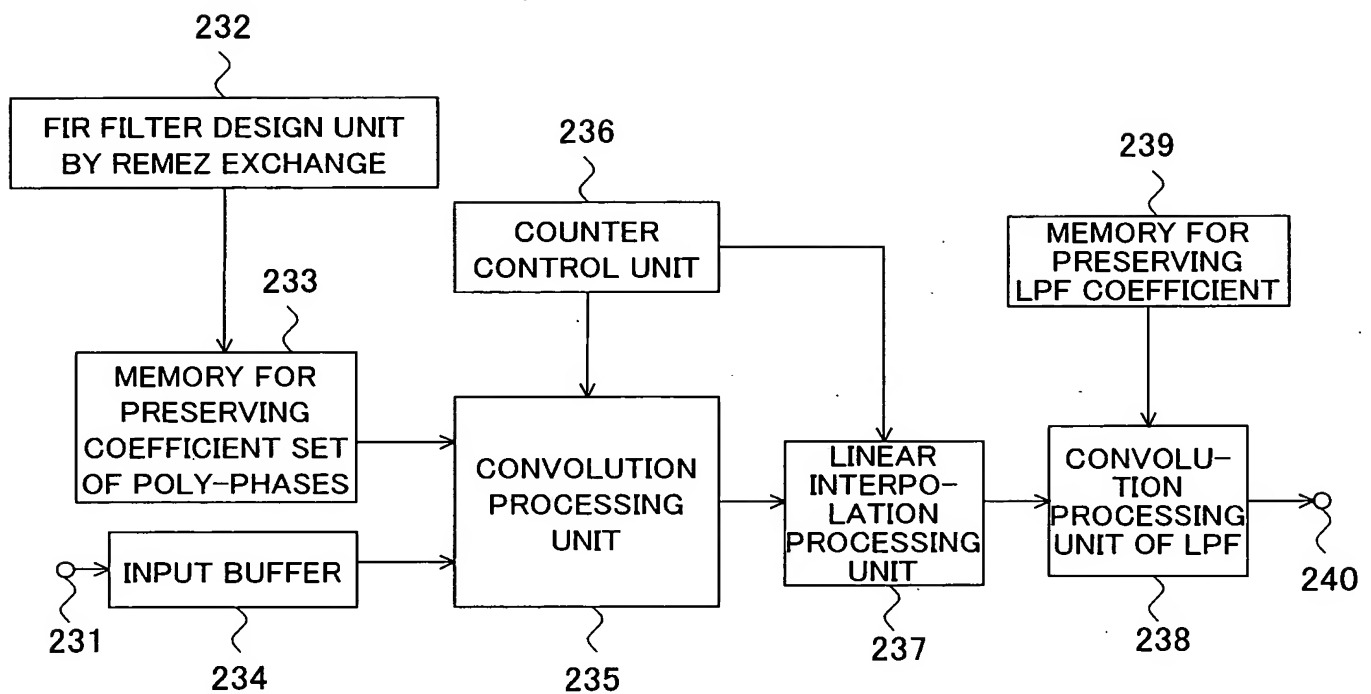


FIG. 23

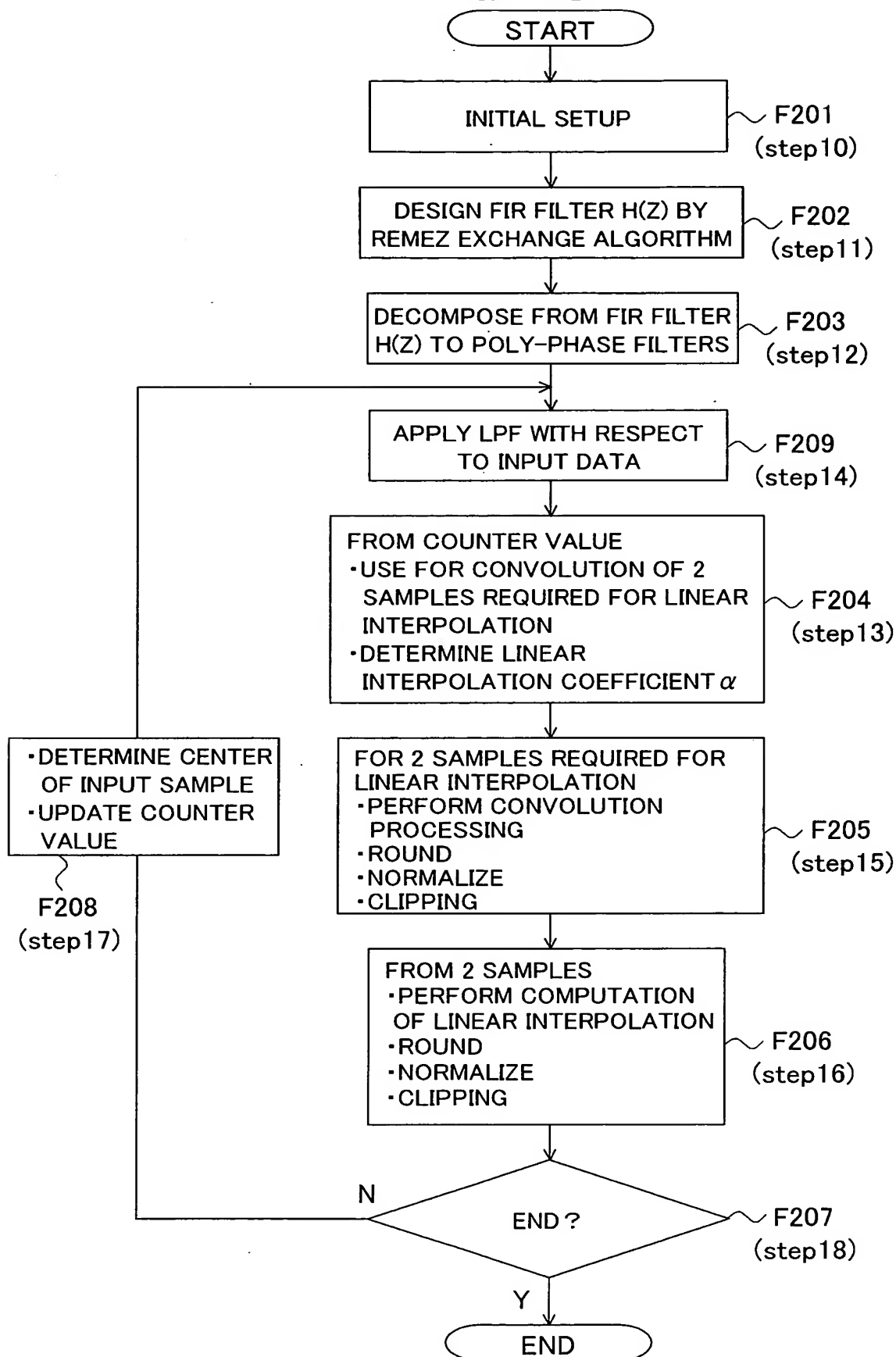


FIG. 24

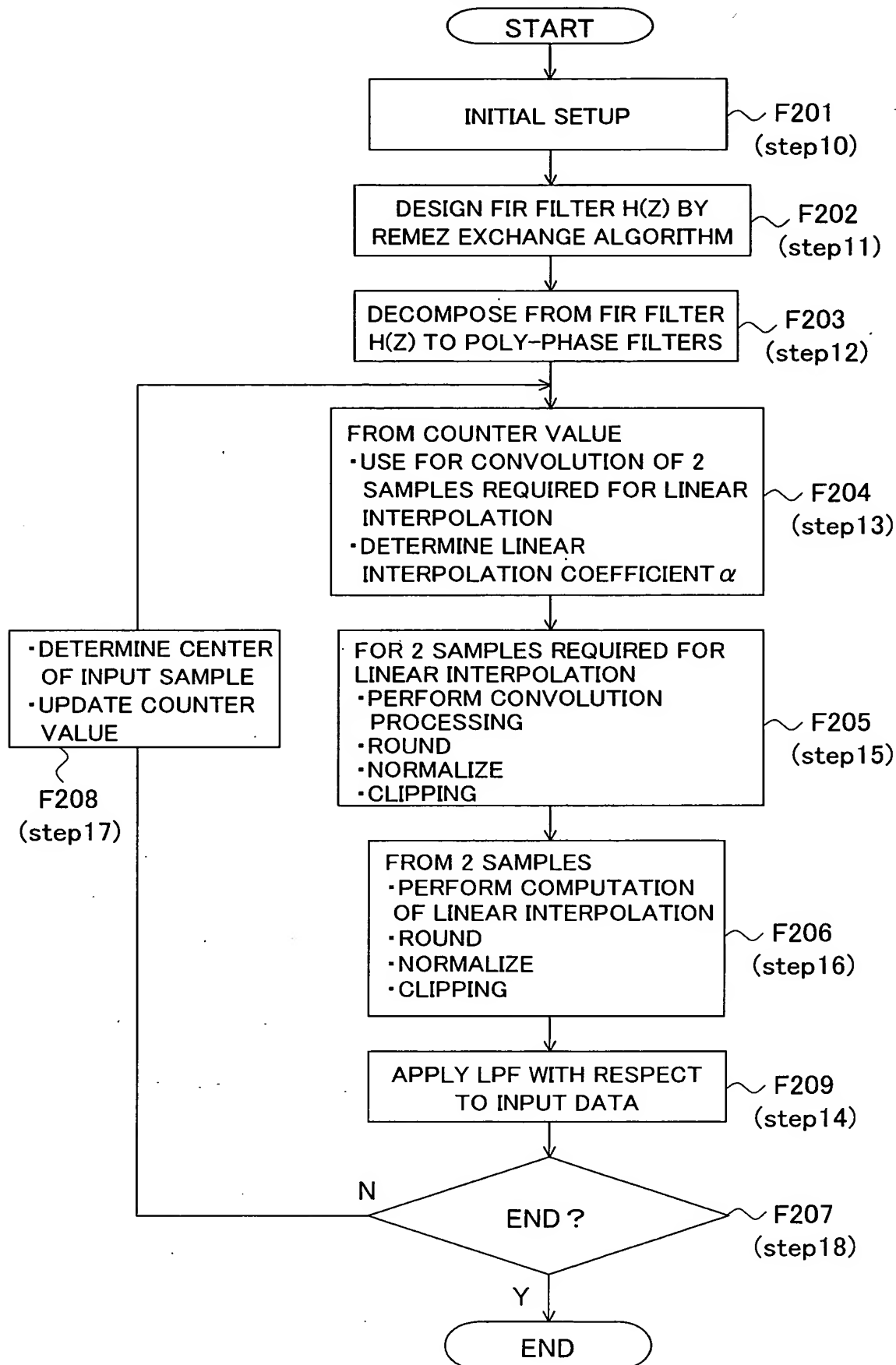


FIG. 25

300

